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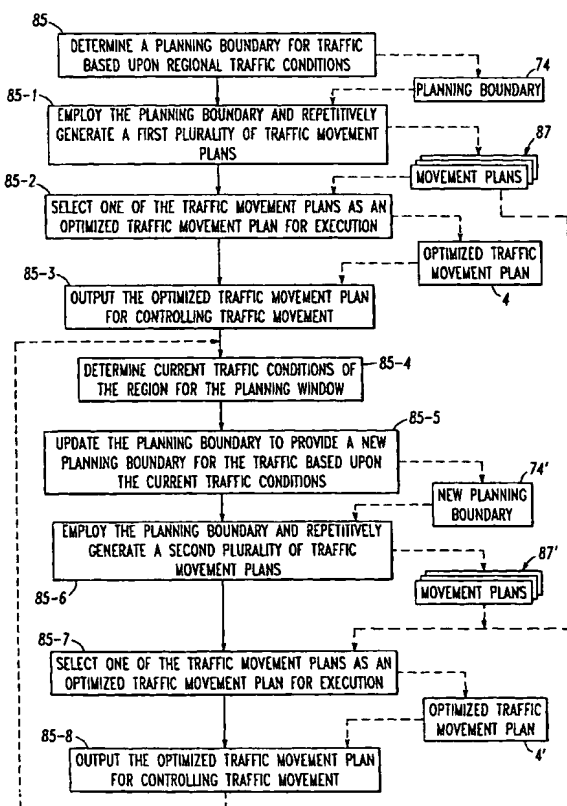
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[Continued on next page]

(54) Title: **DYNAMIC OPTIMIZING TRAFFIC PLANNING METHOD AND SYSTEM**



(57) Abstract: A method generates optimized traffic movement plans. A plan monitor (58) determines a first planning boundary for traffic based upon traffic conditions of a region. A plan generator (56) employs the first planning boundary and repetitively generates first traffic movement plans for the traffic. The plan generator (56) selects one of the first traffic movement plans as a first optimized traffic movement plan, and outputs the same for controlling traffic movement. The plan monitor (58) determines current traffic conditions of the region for a planning window, and updates the first planning boundary to provide a second planning boundary for the traffic based upon the current traffic conditions. The plan generator (56) employs the second planning boundary and repetitively generates second traffic movement plans for the traffic, selects one of the first and second traffic movement plans as a second optimized traffic movement plan, and outputs the same for controlling traffic movement.



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**Declarations under Rule 4.17:**

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations* AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for the following designations* AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR,

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# INTERNATIONAL SEARCH REPORT

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## A. CLASSIFICATION OF SUBJECT MATTER

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US CL : 701/19, 117; 705/8; 246/2R, 167R

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 701/19, 117; 705/7, 8, 9; 246/2R, 167R, 182R

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A,P	US 2004/0010432 A1 (MATHESON et al) 15 January 2004, figure 3.	1-94
A,P	US 6,546,371 B1 (DONER) 08 April 2003, see the entire document.	1-94
A	US 6,459,964 B1 (VU et al) 01 October 2002, see the entire document.	1-94
A	US 6,304,801 B1 (DONER) 16 October 2001, see the entire document.	1-94
A	US 5,828,979 A (POLIVKA et al) 27 October 1998, see the entire document.	1-94
A	US 6,154,735 A (CRONE) 28 November 2000, see the entire document.	1-94.
A	US 6,135,396 A (WHITFIELD et al) 24 October 2000, see the entire document.	1-94
A	US 5,794,172 A (MATHESON et al) 11 August 1998, figure 4.	1-94



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document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&"

document member of the same patent family

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**INTERNATIONAL SEARCH REPORT**

PCT/US03/41207

**C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5,623,413 A (MATHESON et al) 22 April 1997, figure 4.	1-94
A	US 5,177,684 A (HARKER et al) 05 January 1993, see the entire document.	1-94